

From glowbugs@sco.theporch.com Mon Mar 24 21:09:08 1997  
Return-Path: <glowbugs@sco.theporch.com>  
Received: from sco.theporch.com (sco.theporch.com [207.234.31.38])  
by uro.theporch.com (8.8.5/AUX-3.1.1)  
with ESMTP id VAA09509 for <shimshon@uro.theporch.com>;  
Mon, 24 Mar 1997 21:09:06 -0600 (CST)  
From: glowbugs@sco.theporch.com  
Received: from sco.theporch.com (localhost [127.0.0.1])  
by sco.theporch.com (8.8.5/SCO-5.0.2) with SMTP  
id DAA14110; Tue, 25 Mar 1997 03:07:26 GMT  
Date: Tue, 25 Mar 1997 03:07:26 GMT  
Message-Id: <199703250307.DAA14110@sco.theporch.com>  
Errors-To: ws4s@infoave.net  
Reply-To: glowbugs@sco.theporch.com  
Originator: glowbugs@sco.theporch.com  
Sender: glowbugs@sco.theporch.com  
Precedence: bulk  
To: Multiple recipients of list <glowbugs@sco.theporch.com>  
Subject: GLOWBUGS digest 485  
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@sco.theporch.com  
Status: 0

#### GLOWBUGS Digest 485

Topics covered in this issue include:

- 1) Regens and Superhets  
by Kevin Pease <hamradio@mm1001.theporch.com>
  - 2) Re: Admistrative, please read! IMPORTANT!  
by Murray Kelly <mkelly@faraday.dialix.com.au>
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Date: Mon, 24 Mar 1997 19:37:53 -0600 (CST)  
From: Kevin Pease <hamradio@mm1001.theporch.com>  
To: glowbugs@theporch.com  
Subject: Regens and Superhets  
Message-ID: <Pine.LNX.3.95.970324184224.5533A-100000@mm1001.theporch.com>

Is everyone moveing to boatanchors@tempe.gov ?

I have been thinking about the above topics superhets and regen receivers and am torn between the two. I want to build the simplest receiver that I can consistant with good performance. Good Sensivity and selectivety with the leas amount of components. I am thinking about combineing the superhet and regen like in the Simple-X series in my 1962 ARRL Handbook. However I

seem to never be satisfied with the caned receivers so I am thinking about makeing a receiver like the one in the 1857 handbook but useing more modern tubes.

I would like coments from everyone on my Ideas.

Here is the lineup.

1. A 6U8 or similar tube as first mixer and local oscilator feeding an IF transformer at 1700 KHZ useing a 1700 KHZ IF so that I can use band imageing.

2. A 6bE6 as crystal controlled second mixer. I like this tube since it has good gain and is simple. THis would convert to 85 KHZ useing an old command IF Xformer that I have for the IF. This stage would have the RF gain control since the 6be6 can ge gain controled.

3. A 6U8 as a regenerative detector with the triode section the BFO for CW/SSB. Use capacitors for feedback or maybe a tickler hand wound varying the screen voltage for regeneration control. I am wondering how the selectivity will be at 85 KHZ. Should I get good single signal CW selectivety. The BFO will be injected into the grid with a small tickler or maybee stray tube capacitance. I have also thought about useing old TV stabilizer coils ar IF Coils at 100KHZ or maybe padding the Command coils down to 50 KHZ ar an alternative to 85 KHZ.

4 A 6U8 or some Triode/Pentode as audio pre-amplifier/Power Amplifier since I like speaker capability.

I am torn between an IF stage for gain/selectivety and the regenerative detector for gain/selectivety. I could easily add a 6ba6 for the IF and have AVC and all those neat things but this would deviate from simple. I have already compromised by going to dual conversion since I know that more selectivety is available at the low freq IF's than at 1700 KHZ.

My first home brew receiver was a regenerative with at least 1 pentode and maybee two. I don't remember anymore. I still remember listening to SW broadcast with that regenerative receiver. And adjusting the regneration on the edge for best gain and selectivety.

One concern about regeneration at 50-100KHZ is the ringing from the high Q as on aproches regeneration. I suppose that that could be a pain.

The temptation is real strong to add the IF and a product detector and AGC and S-meter for a higher performance design. It could be done with just 1 more tube by useing the dual triod as the product detector/BFO and a silicone diod as an AGC rectifier. Would be pretty neat but I find it har to decide what to do.

When all this is done I plan to also include in the box a QRP level transmitter maybe 6t9 or some other dual tube crystal controlled as the transmitter.

This rig will be set up for 80 and 40 meters.

Kevin Pease  
WB0JZG  
Mount Juliet, TN.

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Date: Tue, 25 Mar 1997 12:04:19 +1000  
From: Murray Kelly <mkelly@faraday.dialix.com.au>  
To: rdkeys@csemail.cropsci.ncsu.edu  
Subject: Re: Admistrative, please read! IMPORTANT!  
Message-ID: <333732A3.3F5E@faraday.dialix.com.au>

The impending closure of this list makes me wonder that the tube manufacturers/importers must surely be interested in keeping folk thinking about their product? Maybe Svetlana or Eimac or the mob that took over the glass tube side of their business would be willing to help out in some way?

After all, even tho there are only +-250 of us on the list we are obviously representative and spread good words abt. their wares (tubes). They are in business, and from first-hand experience I know how much PR means to commerce. It's much more effective \$ 4 \$, than advertising.

rdkeys@csemail.cropsci.ncsu.edu wrote:

> Alas, methinks glowbugs will have to move or vaporize. I would hate to  
> see it vaporize, since there was a lot of good camaraderie amongst the  
> group.....

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\* Murray Kelly vk4aok mkelly@faraday.dialix.com.au \*  
\* 29 Molonga Ter. / Graceville/ QLD. 4075/ Australia \*  
\* ph/fax Intl+ 61 7 3379 3307 \*

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Goodbye, and thanks for all the fish!

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End of GLOWBUGS Digest 485

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